

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2017 Levee Inspection Results

Reclamation District No. 1601 Twitchell

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2017 Levee Inspection Results

Reclamation District No. 1601 Twitchell

Waterway			Bank	Unit Miles
Unit No. 01 Threemile Slough			Left	2.43
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/15/2017 - 3/15/2017			
DWR Inspector	Richard Willoughby			
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	03/15/2017 03/15/2017	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	6
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				
DWR ID	DWR_RD1601_01_s _ 2013_6				
Comment Code					
Inspector Comment					
LMA has a copy of the O & M Manuals on file at the office.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	7
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment				
DWR ID	DWR_RD1601_01_s _ 2013_7				
Comment Code					
Inspector Comment					
LMA has adequate floodfight supplies on hand.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	8
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training				
DWR ID	DWR_RD1601_01_s _ 2013_8				
Comment Code					
Inspector Comment					
LMA staff involved in the yearly Twitchell Island exercise.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	03/15/2017 03/15/2017	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	11
LM End	2.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.122258 °	38.087665 °
				-121.682557 °	-121.683875 °
DWR ID	DWR_RD1601_01_s_2017_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2017_RD1601_237_11_20170316_00020.jpg



Looking northwest at typical view of landward slope.

LM Start	0.00	Rating **	M	Issue No.	12
LM End	2.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.122258 °	38.087665 °
				-121.682557 °	-121.683875 °
DWR ID	DWR_RD1601_01_s_2017_12				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2017_RD1601_237_12_20170316_00019.jpg



Looking northwest at typical view of waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	03/15/2017 03/15/2017	Richard Willoughby

LM Start	0.11	Rating **	M	Issue No.	14
LM End	0.11	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.120716 °	38.120716 °
				-121.682796 °	-121.682796 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:22043 DS_ID:20950 EP_NO: 11227 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears this crossing might be been recently modified--exposed section of pipe is protected with white paint. Need to contact owner to obtain records. Recommend clearing vegetation along the pipe alignment. FIELD_STRUCT_DESC: 14-inch pipe (not 12-inch pipe as original description noted) through the levee, 4.0 feet below the crown. Siphon primer on waterward shoulder. 36-inch steel (not concrete as original description noted) pipe with shut-off valve inside at landward toe ditch. (ABO No. 11227-1975) FS Date: 5/14/2013					

LM Start	0.11	Rating **	M	Issue No.	14 (cont)
LM End	0.11	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP_SP_2017_22043_37621.jpg



View of waterward side. 12-inch pipe to the right and 14-inch pipe to the left.

Photo 2 of 3 : UCIP_SP_2017_22043_37622.jpg



View of landward side with canal located at toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	03/15/2017 03/15/2017	Richard Willoughby

LM Start	0.11	Rating **	M	Issue No.	14 (cont)	
LM End	0.11	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.120716 °		38.120716 °
				-121.682796 °		-121.682796 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:22043 DS_ID:20950 EP_NO: 11227 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears this crossing might be been recently modified--exposed section of pipe is protected with white paint. Need to contact owner to obtain records. Recommend clearing vegetation along the pipe alignment. FIELD_STRUCT_DESC: 14-inch pipe (not 12-inch pipe as original description noted) through the levee, 4.0 feet below the crown. Siphon primer on waterward shoulder. 36-inch steel (not concrete as original description noted) pipe with shut-off valve inside at landward toe ditch. (ABO No. 11227-1975) FS Date: 5/14/2013						

Photo 3 of 3 : UCIP_SP_2017_22043_37624.jpg



View of pipes located on landward side-dense vegetation along slope.

LM Start	0.11	Rating **	M	Issue No.	15
LM End	0.11	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.120708 °	38.120708 °
				-121.682798 °	-121.682798 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:42024 DS_ID:20953 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears this crossing might have been recently modified--O&M manual calls for 8 inch pipe not 12 inch pipe, need additional information--exposed section of pipe is protected with white paint. Need to contact owner to obtain records. Recommend clearing vegetation along the pipe alignment. FIELD_STRUCT_DESC: 12-inch (not 8 inch listed in USACE) siphon through the levee approximately 3.2 feet below the crown. The existing 8-inch pipe listed in the O&M manual is no longer present at LM 0.1 (USACE-1959), no permit was found authorizing crossing modifications. FS Date: 5/14/2013					

Photo 1 of 3 : UCIP_SP_2017_42024_60809.jpg



View of waterward side. 12-inch pipe on the right (u/s) and 14-inch pipe on the left (d/s).

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	03/15/2017 03/15/2017	Richard Willoughby

LM Start	0.11	Rating **	M	Issue No.	15 (cont)	
LM End	0.11	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.120708 °		38.120708 °
				-121.682798 °		-121.682798 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:42024						
DS_ID:20953						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Appears this crossing might have been recently modified--O&M manual calls for 8 inch pipe not 12 inch pipe, need additional information--exposed section of pipe is protected with white paint. Need to contact owner to obtain records. Recommend clearing vegetation along the pipe alignment.						
FIELD_STRUCT_DESC: 12-inch (not 8 inch listed in USACE) siphon through the levee approximately 3.2 feet below the crown. The existing 8-inch pipe listed in the O&M manual is no longer present at LM 0.1 (USACE-1959), no permit was found authorizing crossing modifications.						
FS Date: 5/14/2013						

LM Start	0.11	Rating **	M	Issue No.	15 (cont)
LM End	0.11	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP_SP_2017_42024_60810.jpg



View of pipes from landward shoulder. Levee is a gravel road.

Photo 3 of 3 : UCIP_SP_2017_42024_60812.jpg



View of pipes on landward side-dense vegetation along slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	03/15/2017 03/15/2017	Richard Willoughby

LM Start	0.18	Rating **	M	Issue No.	13
LM End	2.42	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.119757 °	38.087665 °
				-121.682892 °	-121.683875 °
DWR ID	DWR_RD1601_01_s_2017_13				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Control ruts and regrade levee crown.					

Photo 1 of 2 : SP_2017_RD1601_237_13_20170316_00021.jpg



Looking south at typical view of ruts on levee crown.

LM Start	0.18	Rating **	M	Issue No.	13 (cont)
LM End	2.42	Issue Type +	Ma	Location *	CR

Photo 2 of 2 : SP_2017_RD1601_237_13_20170316_00022.jpg



* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	03/15/2017 03/15/2017	Richard Willoughby

LM Start	0.79	Rating **	M	Issue No.	16
LM End	0.79	Issue Type +	En	Location *	CR
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.111078 °	38.111078 °	
			-121.682011 °	-121.682011 °	
DWR ID					
Comment Code					
Inspector Comment					
<p>FS_ID:50031 DS_ID:20958 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 8/02/2016 LMA representative, Rick Carter, was notified on 7/5/2016 by Underground Service Alert that no pipe line was identified within RD1601 levees. UCIP will need to coordinate with PG&E directly to determine fate of crossing. This crossing was downgraded from Urgent to Non-Urgent due to the crossing not in service. (DWR UCIP - omagana)7/05/2016 No markers present. According to LMA representative, Rick Carter, this crossing is an abandoned PG&E 450 low pressure line. LMA representative is coordinating with Underground Service Alert (USA) to confirm location of crossing. Once USA provides location Rick Carter will provide photos of location and overview photos of crossing to Olivia M (DWR UCIP). Pending Action - Need to coordinate with PG&E to determine details about the year and method of pipe abandonment. (DWR UCIP - omagana)5/14/2013 no markers or signs available--will need to coordinate with owner to determine if crossing is still being used or abandoned. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 12-inch steel 450 low pressure gas line through the levee at an unknown depth. Facility on landside (LS)-not found in 2013. USACE Drawing indicates gas line and facility were relocated. (PG&E abandoned line). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit No. 102, April 1959, Drawing No. 50-4-2958]. FS Date: 7/5/2016</p>					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	03/15/2017 03/15/2017	Richard Willoughby

LM Start	0.79	Rating **	M	Issue No.	17
LM End	0.79	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.111078 °	38.111078 °
				-121.682011 °	-121.682011 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39946 DS_ID:24069 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Unable to determine if line crosses levee. Need to contact owner to determine if crossing goes through levee. Also need to determine permit authorizing work on landward side. FIELD_STRUCT_DESC: Steel stand pipe with PVC pipe inside located on landward shoulder. Rip rap located on waterward slope. Unable to determine if crossing goes through levee. Appears to be monitoring gas well. FS Date: 3/19/2009					

Photo 1 of 3 : UCIP_SP_2017_39946_71862.jpg



View of landward side--standpipe located on slope.

LM Start	0.79	Rating **	M	Issue No.	17 (cont)
LM End	0.79	Issue Type +	En	Location *	CR

Photo 2 of 3 : UCIP_SP_2017_39946_71860.jpg



View of landward side--dense vegetation along slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	03/15/2017 03/15/2017	Richard Willoughby

LM Start	0.79	Rating **	M	Issue No.	17 (cont)	
LM End	0.79	Issue Type +	En	Location *	CR	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.111078 °		38.111078 °
				-121.682011 °		-121.682011 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39946 DS_ID:24069 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Unable to determine if line crosses levee. Need to contact owner to determine if crossing goes through levee. Also need to determine permit authorizing work on landward side. FIELD_STRUCT_DESC: Steel stand pipe with PVC pipe inside located on landward shoulder. Rip rap located on waterward slope. Unable to determine if crossing goes through levee. Appears to be monitoring gas well. FS Date: 3/19/2009						

Photo 3 of 3 : UCIP_SP_2017_39946_71861.jpg



PVC pipe inside standpipe located on landward side.

LM Start	1.40	Rating **	M	Issue No.	18
LM End	1.40	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.102422 °	38.102422 °
				-121.684289 °	-121.684289 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39947 DS_ID:24068 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Unable to determine if line crosses levee. Need to contact owner to determine if crossing goes through levee. Also need to determine permit authorizing work on landward side. FIELD_STRUCT_DESC: Steel stand pipe with PVC pipe inside located on landward shoulder. Rip rap located on waterward slope. Unable to determine if crossing goes through levee. Appears to be monitoring gas well. FS Date: 3/19/2009					

Photo 1 of 3 : UCIP_SP_2017_39947_71865.jpg



View of landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	03/15/2017 03/15/2017	Richard Willoughby

LM Start	1.40	Rating **	M	Issue No.	18 (cont)	
LM End	1.40	Issue Type +	En	Location *	CR	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.102422 °		38.102422 °
				-121.684289 °		-121.684289 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39947 DS_ID:24068 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Unable to determine if line crosses levee. Need to contact owner to determine if crossing goes through levee. Also need to determine permit authorizing work on landward side. FIELD_STRUCT_DESC: Steel stand pipe with PVC pipe inside located on landward shoulder. Rip rap located on waterward slope. Unable to determine if crossing goes through levee. Appears to be monitoring gas well. FS Date: 3/19/2009						

Photo 2 of 3 : UCIP_SP_2017_39947_71866.jpg



PVC inside standpipe located on landward side.

LM Start	1.40	Rating **	M	Issue No.	18 (cont)
LM End	1.40	Issue Type +	En	Location *	CR

Photo 3 of 3 : UCIP_SP_2017_39947_71864.jpg



View of waterward side -- rip rap located along waterward toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	03/15/2017 03/15/2017	Richard Willoughby

LM Start	1.77	Rating **	M	Issue No.	19
LM End	1.77	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.097105 °	38.097105 °
				-121.684815 °	-121.684815 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39948 DS_ID:24071 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Unable to determine if line crosses levee. Need to contact owner to determine if crossing goes through levee. Also need to determine permit authorizing work on landward side. FIELD_STRUCT_DESC: Steel stand pipe with PVC pipe inside located on landward shoulder. Rip rap located on waterward slope. Unable to determine if crossing goes through levee. Appears to be monitoring gas well. FS Date: 3/19/2009					

Photo 1 of 3 : UCIP_SP_2017_39948_71869.jpg



Standpipe located on landward side.

LM Start	1.77	Rating **	M	Issue No.	19 (cont)
LM End	1.77	Issue Type +	En	Location *	CR

Photo 2 of 3 : UCIP_SP_2017_39948_71868.jpg



View of landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	03/15/2017 03/15/2017	Richard Willoughby

LM Start	1.77	Rating **	M	Issue No.	19 (cont)
LM End	1.77	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.097105 °	38.097105 °
				-121.684815 °	-121.684815 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39948 DS_ID:24071 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Unable to determine if line crosses levee. Need to contact owner to determine if crossing goes through levee. Also need to determine permit authorizing work on landward side. FIELD_STRUCT_DESC: Steel stand pipe with PVC pipe inside located on landward shoulder. Rip rap located on waterward slope. Unable to determine if crossing goes through levee. Appears to be monitoring gas well. FS Date: 3/19/2009					

Photo 3 of 3 : UCIP_SP_2017_39948_71867.jpg



View of waterward side.

LM Start	2.05	Rating **	M	Issue No.	20
LM End	2.05	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.093107 °	38.093107 °
				-121.684525 °	-121.684525 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19545 DS_ID:20951 EP_NO: 2909A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears this crossing might be been recently modified--exposed section of pipe is protected with white paint. Need to contact owner to obtain records. Recommend clearing vegetation along the pipe alignment. Dense vegetation on landward slope limits the inspector's visibility to identify signs of leaks along levee slope. FIELD_STRUCT_DESC: 8-inch siphon pipe through levee, 2.4 feet below crown. Cutoff wall around pipe at center of levee. Siphon breaker on apex of pipe on landward shoulder. Hand primer pump on landward slope. (Permit No. 2909A-1960) FS Date: 5/14/2013					

Photo 1 of 3 : UCIP_SP_2017_19545_33173.jpg



View of levee crown looking downstream at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	03/15/2017 03/15/2017	Richard Willoughby

LM Start	2.05	Rating **	M	Issue No.	20 (cont)	
LM End	2.05	Issue Type +	En	Location *	CR	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.093107 °		38.093107 °
				-121.684525 °		-121.684525 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:19545 DS_ID:20951 EP_NO: 2909A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears this crossing might be been recently modified--exposed section of pipe is protected with white paint. Need to contact owner to obtain records. Recommend clearing vegetation along the pipe alignment. Dense vegetation on landward slope limits the inspector's visibility to identify signs of leaks along levee slope. FIELD_STRUCT_DESC: 8-inch siphon pipe through levee, 2.4 feet below crown. Cutoff wall around pipe at center of levee. Siphon breaker on apex of pipe on landward shoulder. Hand primer pump on landward slope. (Permit No. 2909A-1960) FS Date: 5/14/2013						

LM Start	2.05	Rating **	M	Issue No.	20 (cont)
LM End	2.05	Issue Type +	En	Location *	CR

Photo 2 of 3 : UCIP_SP_2017_19545_33174.jpg



View of levee crown looking upstream at crossing.

Photo 3 of 3 : UCIP_SP_2017_19545_33171.jpg



View of crossing on waterward slope. Rip rap present at waterward toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---